



# OCO Use of Real-Time Data

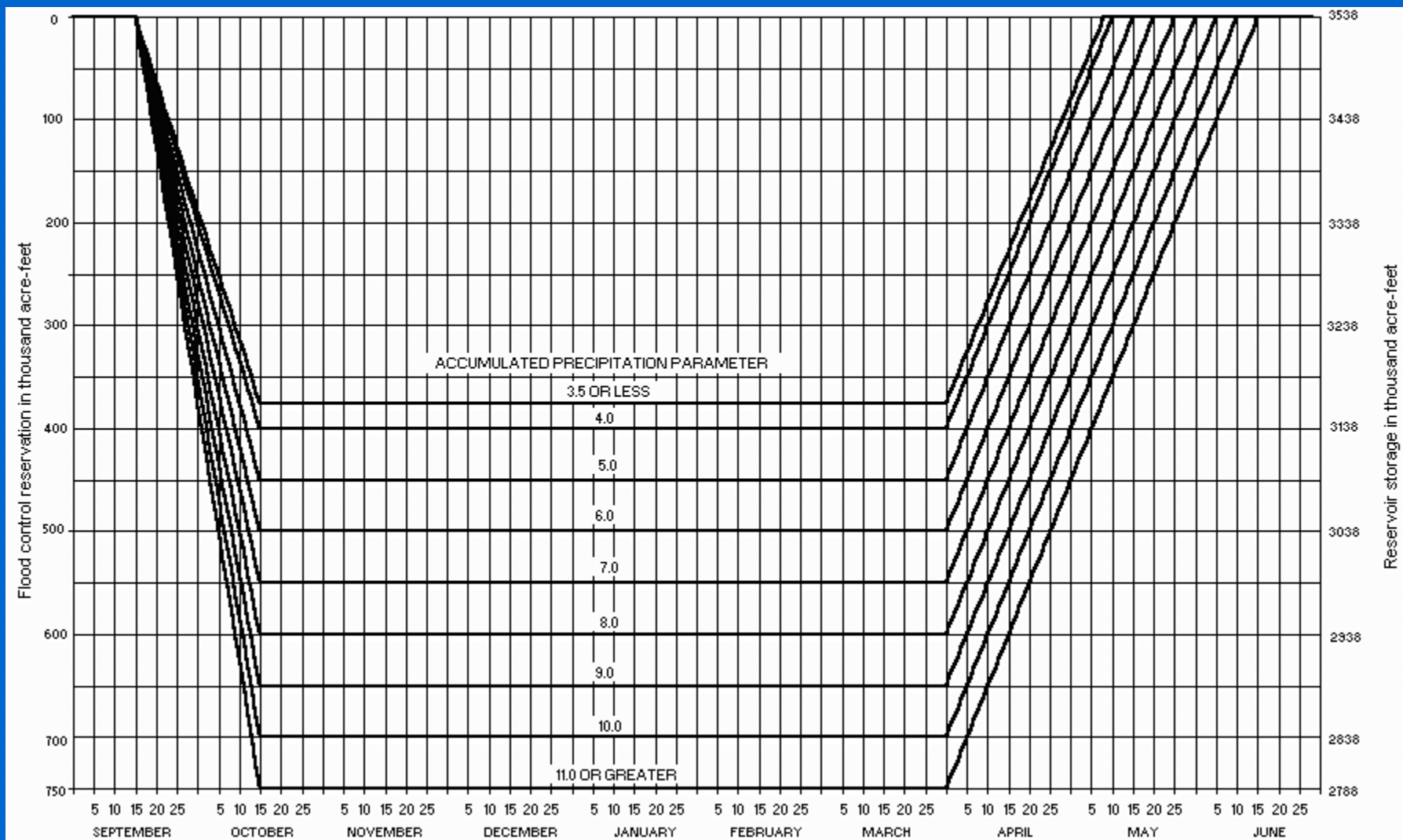


# Real-Time Data Uses

- Flood Control Operations
- Water Supply Allocation Process
- Delta Operations
  - Salinity monitoring
  - Projected Delta inflow

# Flood Control Operations

- USACE Oroville Flood Control Diagram
  - Requires minimum flood control space
    - varies by month
    - varies by basin “wetness” (precipitation parameter)
  - Dictates flood control releases when actual storage encroaches into flood control space
    - actual inflow (cfs)
    - forecasted inflow (cfs)
    - rate of rise in elevation (feet/hour)



# Precipitation Parameter

- Precipitation Parameter =  
(previous day's precipitation parameter) x 0.97  
+ (average basin-wide precipitation)

Example:

Yesterday's precip. parameter = 4.4 inches

Yesterday's average precip. = 2.0 inches

Today's P.P. =  $0.97(4.4) + 2.0 = 6.27$

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## *Water Supply Allocation Process*

- Allocation Study
  - Monthly time-step model
  - Initial allocation in early December based on 90% exceedence hydrology.
  - Study updated each month through May to reflect changes in runoff forecasts and storages.
  - Subsequent allocations based on 99% exceedence hydrology.

# Delta Operations

- Delta Standard Compliance
  - Water Quality Standards
  - Flow Standards
- Operations Scheduling
  - Reservoir Releases
  - Delta Pumping